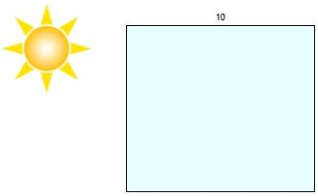
GUARDIAN CONFIGURATOR
GLASS PERFORMANCE CALCULATOR

KIWA confirms to have verified the calculation engine of the software **Guardian Configurator 4.1** to be compliant to EN 410 and EN 673.

Product code

89 / 83 / 5,6



total thickness = 10 mm

Glazing from external to internal:

Pane 1

10 mm Float Glass ExtraClear

Results

Visible light (EN 410 - 2011)		
transmittance [%]	τ_v =	89,2
reflectance external [%]	ρ_v =	8,4
reflectance internal [%]	ρ_v =	8,4
general colour rendering index [%]	R_a =	97,8

Thermal properties (EN 673 - 2011)		
U-value [W/(m²K)]	U_g =	5,6
slope α =	90°	

Solar energy (EN 410 - 2011)		
solar factor [%]	g =	82,7
shading coefficient [g/0.87]	sc =	0,95
direct transmittance [%]	τ_e =	79,6
direct reflectance external [%]	ρ_e =	7,5
direct reflectance internal [%]	ρ_e =	7,5
direct absorption [%]	a =	12,9
UV transmittance [%]	τ_{uv} =	62,3
secondary internal heat transfer factor [%]	q_i =	3,0

Other data		
estimated sound reduction index [dB]	R_w =	33,0
(EN 717-1)	C =	-2,0
	C_{tr} =	-3,0

The calculated values are for orientation only and do not offer any guarantee regarding the fabrication of the un- intended end- product. Glass configurations do not amount to a guarantee of product availability.